

5.3.8 Major Residential HVAC Equipment Lifetimes, Ages, and Replacement Picture

<u>Equipment Type</u>	<u>Typical Service Lifetime Range</u>	<u>Average Lifetime</u>	<u>1990 Average Stock Age</u>	<u>Units to be Replaced During 2009 (1,000s)</u>
Central Air Conditioners	8 - 14	11	9	4,980
Heat Pumps	9 - 15	12	8	1,131
Furnaces				3,008
Electric	10 - 20	15	11	N.A.
Gas-Fired	12 - 17	15	12	2,866
Oil-Fired	15 - 19	17	N.A.	141
Steam or Hot-Water Boilers (gas and oil)	20 - 40	N.A.	14	N.A.

Note(s): Replacement values include smaller commercial building units. Gas/oil furnaces include wall furnaces.

Source(s): Appliance Magazine, A Portrait of the U.S. Appliance Industry, Sept. 2008, p. 44 for service and average lifetimes, and units to be replaced; ASHRAE, 1999 ASHRAE Handbook: HVAC Applications, Table 3, p. 35.3 for boilers service lifetimes; and EIA, Housing Characteristics 1990, May 1992, Table 7, p. 24 for 1990 average stock ages.